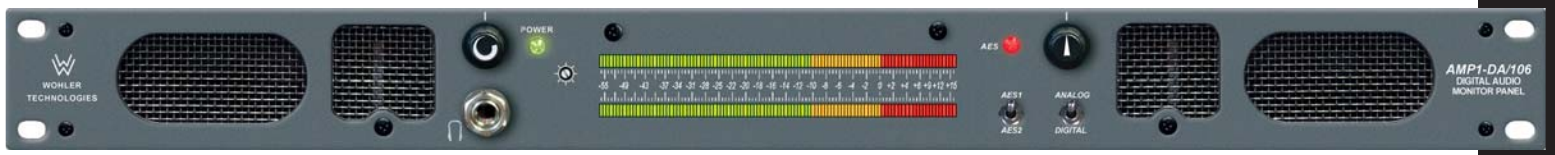
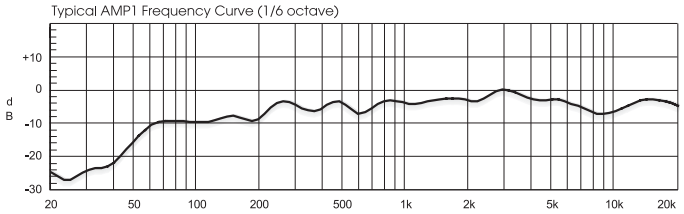
World Leader • In-Rack • Audio & Video Monitoring

Wohler AMP1-DA/106

October 12, 2004

Compact 2 Channel Analog & AES/EBU Self-Powered Speaker System with Professional Level Metering





features:

Full Fidelity Audio Monitoring in only 1U of rack space
2 Unbalanced AES/EBU Digital Inputs (Select 1)
2 Balanced Analog Inputs (1 Stereo)
Balanced Analog Output of Selected Digital Source
2 Ultra High Resolution 106 Segment Tri-Color LED Bargraphs
Simultaneous VU (bar) and PPM (dot) Bargraph Display Ballistics
Audible Indication of Phase/Polarity Problems
Custom Variations of Standard Scales and/or Color Masks Available on Request
Industry Leading Wide Dynamic Range
1 dB Midscale Resolution
Powerful 98dB SPL at 2 feet (0.6m)
Premium Quality Drivers & Power Amplifiers
Extended Frequency Response and Low Distortion
Focused Sound, Reduces Adjacent Bay Crosstalk
Audible Indication of Phase/Polarity Problems
Thorough Magnetic Shielding for Placement next to Video Monitors
Headphone Jack, Mutes Speakers
Blowout Proof Speakers
Quick and Simple Installation

The AMP1-DA/106 provides self-powered, full-fidelity stereo audio monitoring of 2 channels from Analog and AES/EBU Digital sources and ultra-high resolution LEDs with 106 segments in the smallest rack space possible. This unit contains four high performance transducers driven by three power amplifiers: one amplifier/driver combination handles midrange and high frequency information in stereo, while the second handles summed low frequency information below the 500 Hz crossover point.

The unique design provides optimally focused sound for operators in an Ultra Near Field (1 to 3 ft.) working environment and offers performance comparable to that of many separate monitor pairs, yet does so without the installation hassles, awkward speaker placements and "added-on" look. This provides for a higher SPL for the operator while reducing overall ambient sound and adjacent bay crosstalk.

The level meters are now available with a choice of BBC, DIN, Nordic and VU scales and "PPM Only" has also been added to the user selectable options. These changes were requested by our customers, if you don't see what you are looking for please do contact us and we'll be glad to help.

Extended HF response reveals potential problems with audio whine or hiss and electronic rather than acoustic cancellation of bass frequencies provides positive audible detection of out-of-phase (reversed polarity) audio feeds. A headphone jack is provided on the front panel, usage automatically mutes the speakers. Output limiter circuits are incorporated to protect the speakers, and extensive magnetic shielding allows placement immediately adjacent to video monitors with no color impurities.

Our unique tri-color LED design means we can offer an almost unlimited variety of options such as Phase Correlation, Peak Hold, Loudness, Sum & Difference, and alternate scales & color mappings. The standard display mode is set as a single segment PPM "dot" above a VU bar; each segment's color is fixed according to its position on the scale. Level calibration may be set via dip switches to select one of four different calibration levels.

The AMP1-DA/106 is ideally suited for use in VTR bays, mobile production vehicles, teleconferencing installations, multimedia systems, satellite link and cable TV facilities, and on-air radio studios. Built and rigorously tested in the USA, the AMP1-DA/106 is backed by a strong warranty and a "Satisfaction Guaranteed" return policy.

Wohler

Audio Monitoring | Level Metering | Alarm Systems | Video Monitoring

Toll Free (US): 1-888-5-WOHLER Tel: (650) 589-5676 Fax: (650) 589-1355 • 713 Grandview Drive, South San Francisco, California 94080, USA

www.wohler.com sales@wohler.com

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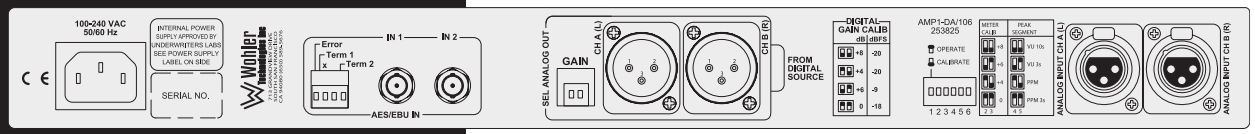
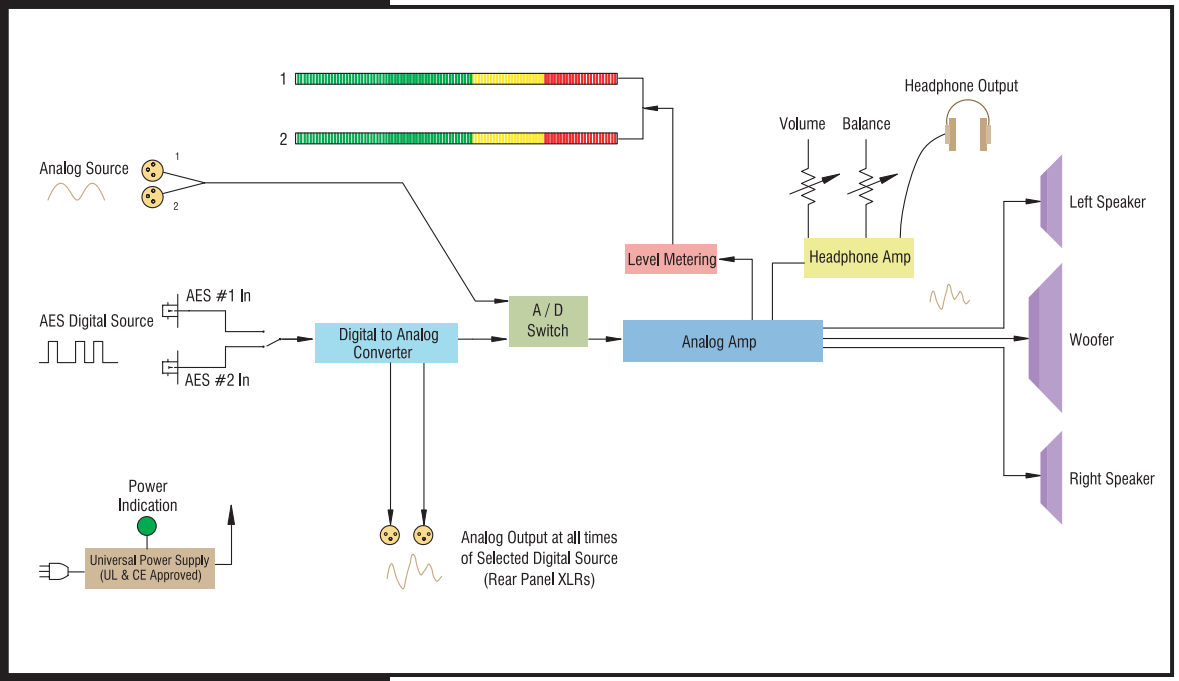
Rear Panel:



System Diagram:



Specifications:

Analog input	2 balanced analog inputs (XLR)
AES/EBU input	2 unbalanced AES/EBU inputs (BNC)
Analog output	balanced analog output of selected digital pair, XLR
Level meters	2 x 106 segment
Level meter scale	-56 to +16 dB
Level meter threshold	0, +4, +6 or +8dBv - DIP switch selectable
Level meter dynamics	Simultaneous VU & PPM
Midscale resolution	2dB
Peak acoustic output @ 2 feet	98dB SPL
Power output	RMS each side (2 Ohms) - 5W, 7W peak RMS center WOOFER (4 Ohms) - 11W, 16W peak
Frequency response (1/6 octave)	80Hz - 20kHz (±5dB) (-10dB @ 50Hz, 22kHz)
Analog input impedance	>40 kOhms balanced
Input termination settings	75 ohms (BNC - unbalanced), 110 ohms (XLR - balanced)
AES/EBU input sampling rate	32-48kHz, auto-detecting
Hum and noise	better than -68dB below full output
Electrical distortion	<0.15% at any level below limit threshold
Acoustic distortion	8% or less worst case frequencies above 180Hz including cabinet resonance, typically <2%
Magnetic shielding	<0.5 gauss any adjacent surface
Power consumption (AVG. MAX.)	30W
Dimensions (HxWxD)	1.75 x 19 x 12" (44.5 x 483 x 305mm)
Weight	9.5lbs (4.3kg)
Power Supply	100 to 240VAC, 50/60Hz universal input CE and UL approved

All specifications are subject to improvement

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